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特願2002-13546 2002 年 1 月 22 日 (22.01.2002) JP(71) 出願人 (米国を除く全ての指定国について): 科学技術
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— 国際調査報告書

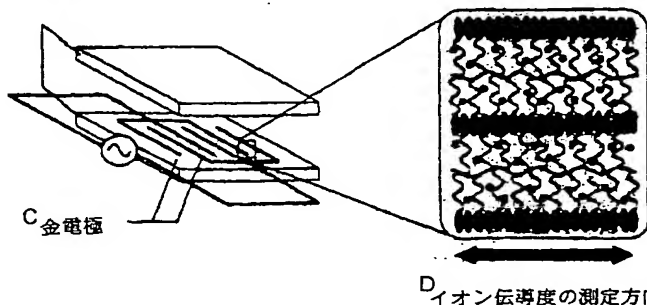
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(KATO, Takashi) [JP/JP]; 〒216-0005 神奈川県 川崎市2 文字コード及び他の略語については、定期発行される
各 PCT ガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。(54) Title: POLYMERIZABLE ION-CONDUCTIVE LIQUID-CRYSTALLINE COMPOSITE, ANISOTROPICALLY ION-CON-
DUCTIVE POLYMERIC LIQUID-CRYSTAL COMPOSITE, AND PROCESS FOR PRODUCING THE SAME

(54) 発明の名称: 重合可能なイオン伝導性液晶性複合体と異方的イオン伝導性高分子液晶複合体並びにその製造方法

A セル A (σ_{ij})

B ガラス基板

A...CELL A
B...GLASS SUBSTRATE
C...GOLD ELECTRODE
D...DIRECTION OF IONIC-CONDUCTIVITY MEASUREMENT(57) Abstract: A composite of an organic
monomer compound having a molecular structure
containing a polymerizable part, a part for
forming an ion composite, and a mesogenic part
imparting liquid crystallinity with an (in)organic
salt is polymerized at the polymerizable part
of the organic monomer compound. Thus,
an anisotropically ion-conductive polymeric
liquid-crystal composite is obtained. A new
material is thus provided which combines the high
ionic conductivity inherent in polyelectrolytes, the
anisotropy due to liquid-crystal orientation, and the
self-supporting properties possessed by polymeric
compounds.

[続葉有]

ATTACHMENT E

WO 03/062286 A1

INTERNATIONAL SEARCH REPORT

International Application No.

PC/JPO3/00555

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C08F20/30, C08F2/44, C08F2/46//C09K19/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C08F12/00-12/36, 16/00-38/04, 112/00-112/36, 116/00-138/04, 212/00-212/36, 216/00-238/04, C08F2/44-2/50, C09K19/38

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI/L, CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E,X	JP 2003-64259 A (Fuji Photo Film Co., Ltd.), 05 March, 2003 (05.03.03), Claims; Par. Nos. [0042] to [0083] (Family: none)	1-5
E,X	JP 2003-20479 A (Canon Inc.), 24 January, 2003 (24.01.03), Full text (Family: none)	1-5
P,X	JP 2002-170426 A (Fuji Photo Film Co., Ltd.), 14 June, 2002 (14.06.02), Full text & US 2002/55046 A1	1-5

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search
14 April, 2003 (14.04.03)Date of mailing of the international search report
30 April, 2003 (30.04.03)Name and mailing address of the ISA/
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INTERNATIONAL RESEARCH REPORT

International Application No.

PCJP03/00555

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	JP 2002-105033 A (Canon Inc.), 10 April, 2002 (10.04.02), Full text & EP 1176184 A2 & US 2002/47104 A1	1-5
X	JP 2001-202995 A (Fuji Photo Film Co., Ltd.), 27 July, 2001 (27.07.01), Full text & EP 1116769 A2 & US 2002/34690 A1	1-5
X	JP 11-86629 A (Mitsubishi Electric Corp.), 30 March, 1999 (30.03.99), Claims; examples (Family: none)	3

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